T.E Comp. V 22|5|13

Computer Networks

P4–RT–Exam.–Feb.–13–3–38

Con. 7273–13. **GS–8997**

(3 Hours) **[Total Marks : 80**

N.B. : (1) Question No. **1** is **compulsory**.
(2) Attempt any **four** questions out of remaining **six** questions.
(3) Assume **suitable** data wherever **required**.

1. (a) What is the need for layering ? Discuss the design issues for layers. **10**
   (b) Explain the ALOHA protocol. Compare the performance of Pure Aloha v/s Slatted Aloha at low load and high load. **10**

2. (a) Explain different framing methods. What are the advantages at variable length frames over fixed length frames ? **10**
   (b) Explain : FDMA, TDMA and CDMA. **10**

3. (a) Explain sliding windows protocol with selective repeat. **10**
   (b) Explain with the suitable example CRC algorithm for computing checksum. **10**

4. (a) What are transport service primitive ? **10**
   (b) How TCP controls the congestion, explain in detail. **10**

5. (a) Differentiate between the following :– **10**
      (i) Protocol and Interface
      (ii) Connectionless and connection oriented service.
   (b) What are different types of routing ? Explain any one in detail. **10**

6. (a) Explain the different factors associated with quality of service in inter network. **10**
   (b) Describe the IPV4 header format in detail. **10**

7. Write short notes on (any **four**) :– **20**
   (a) SONET
   (b) Layer 2 v/s Layer 3 switching
   (c) Bluetooth
   (d) CIDR
   (e) Berkely Socket.

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